INTERNATIONAL SEARCH REPORT

International application No. PCT/KR2004/003177

A. CLASSIFICATION OF SUBJECT MATTER			
IPC7 G01R 27/02			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
IPC7 G01R 27/02 G06F 19/00 G01R 31/36 H01M 10/48 H02J 7/00			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
KOREAN PATENTS AND APPLICATIONS FOR INVENTIONS SINCE 1975			
Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used)			
WPI, PAJ "BATTERY""INTERNAL""IMPEDANCE"			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appr	opriate, of the relevant passages	Relevant to claim No.
· A	US 2002/0161537 A1 (IBM .CO.) 31 OCTOBER 200	2	1
	see tihe whole document		
A	JP 2000-88934 (FUSITSU CO.) 31 MARCH 2000		1
	see the whole document		
 A ·	JP 07-128418 (SHINDENGEN ELECTRIC MFG. CO see the whole document	D.) 19 MAY 1995	1
A	JP 04-27885 (SHINKOBE ELECTRIC CO.) 30 JANUARY 1992 see the whole document		1 .
P,A JP 2004-251625 (HIOKI EE CO.) 09 SEPTEMBER 2004		2004	1
P,A JP 2004-251625 (HIOKI EE CO.) 09 SEPTEMBER 2004 see the whole document			
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Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents: "T" later document published after the international filing date or priority			
"A" document defining the general state of the art which is not considered to be of particular relevance date and not in conflict with the application but cited to understand the principle or theory underlying the invention			ntion
"E" earlier application or patent but published on or after the international filing date "X" document of particular relevance; the claimed invention cannot considered novel or cannot be considered to involve an inventi			
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other "Y" document of particular relevance; the claimed invention cannot be			
special reason (as specified) considered to invo		considered to involve an inventive step v	when the document is
means being		combined with one or more other such do being obvious to a person skilled in the art	cuments, such combination
"P" document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family			
Date of the actual completion of the international search		Date of mailing of the international search report	
31 MARCH 2005 (31.03.2005)		01 APRIL 2005 (01.04.2005)	
Name and ma	ailing address of the ISA/KR	Authorized officer	611801PD
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